

from two or more different blocks, wherein said molecular bar code is a charged polymer capable of generating a reproducible signal upon passage through a nanopore; and

(b) a member of a specific binding pair, wherein said specific binding pair member is joined directly or through a linking group to said molecular bar code.

Cancel claim 4 without prejudice.

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5. (Amended) The targeted molecular bar code according to Claim 1, wherein said block copolymer comprises three different blocks.

11. (Amended) The targeted molecular bar code according to Claim 10, wherein said sugar phosphates are selected from the group consisting of ribose phosphates and deoxyribose phosphates.

14. (Amended) The targeted molecular bar code according to Claim 8, wherein each block of said block copolymer has a length ranging from 15 to 25 nm.

REMARKS UNDER 37 C.F.R. § 1.111

Formal Matters

Claims 1-3 and 5-29 are pending after entry of the amendments set forth herein.

Claims 1-19 and 25-29 were examined. Claims 1-19 and 25-29 were rejected. Claims 20-24 were withdrawn from consideration as a result of the restriction requirement.

Please cancel claim 4 without prejudice. Please replace claims 1, 5, 11 and 14 with the clean version provided above.

Applicants respectfully request reconsideration of the application in view of the amendments and remarks made herein. The amendment to claim 1 is to import the limitation of cancelled claim 4. The amendments to claims 5 and 11 are to provide proper antecedent basis for the dependent claims. The amendment to claim 14 is to more fully describe that the block copolymer is composed of a length of copolymers. No new matter has been added by these amendments.